Vitrea® 6.7.4 Release Notes

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This publication is valid for VitreaCore™ 6.7.4, VitreaWorkstation™ 6.7.4, VitreaWorkstation fX 6.7.4, VitreaAdvanced® 6.7.4, VitreaAdvanced® fX 6.7.4, and VitreaExtend® 6.7.4.

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EC REP

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Table of Contents

Introduction

This document contains the following information:

- A listing of Cautions and Notes new to the VitreaAdvanced®, VitreaWorkstation™, and VitreaExtend® 6.7.4 software releases;
- A listing of the features that are new to the VitreaAdvanced, VitreaWorkstation, and VitreaExtend 6.7.4 software releases;
- Known software limitations for the VitreaAdvanced, VitreaWorkstation, and VitreaExtend 6.7.4 software releases; and
- Resolved and known issues for the VitreaAdvanced, VitreaWorkstation, and VitreaExtend 6.7.4 software releases.

NOTE: references to VitreaAdvanced and VitreaWorkstation also include VitreaAdvanced fX and VitreaWorkstation fX.

⚠
CAUTION: For general Safety and Regulatory Considerations, refer to the appropriate Education and Reference Guide.

⚠
CAUTION: Federal law restricts this device to sale by or on the order of a physician, as directed by 21 CFR 801.109(b) (1).

NOTE: You can find the Intended Use Statements in the About Vital Guide.

Contact Us

- For general, non-technical support questions, contact us through our Web site: www.vitalimages.com.
- For customer technical support, contact us at:
  - In the U.S., call the Customer Support line at 1.800.208.3005; or
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  - Send an email to support@vitalimages.com.
- To provide feedback about this document or other Vital Images product documentation, send an email to feedback@vitalimages.com.
- Contact Customer Support for a printed version of the release notes, education and reference guide, or installation guides.

Cautions and Notes

As of Version	Products	Description
6.7.4	Myocardial Perfusion	**CAUTION**: The Vitrea CT Myocardial Perfusion software is intended to operate with any CT scanner model capable of performing a coronary CT angiography. Currently the software is validated on Toshiba Aquilion® One scanner. If you are using data from other CT scanners, please contact Vital customer support for more information. (Introduced in the US in 6.7.4)
6.7	Body Perfusion	**CAUTION:** Vitrea CT Body Perfusion 4D does not support shuttle acquisition studies. Any shuttle acquisition studies loaded into CT Body Perfusion 4D will have inaccurate results.
6.6.1	VitreaExtend	**CAUTION:** There are known image quality issues when running VitreaExtend on Windows XP 32-bit and 64-bit (SP2 and SP3) where images display tearing artifacts. To avoid any image quality issues, Vital recommends you use Windows 7 or Windows 8.1.
6.6.1	VitreaExtend VIT-10705	**CAUTION: Console Logout Restrictions** Once any user logs into the VitreaExtend Host System, they must not log out if any Remote sessions are active. If they do log out, then those sessions will become unresponsive. If there are no active Remote sessions, a user can log out of the VitreaExtend Host system without issue. For more information, refer to the VitreaExtend Install Guide.
6.6.1	VitreaExtend	**CAUTION:** Remote sessions will log off after 15 minutes of inactivity. This amount of time is configured by your System Administrator
6.6.1	VitreaExtend	**CAUTION:** If all remote sessions are in use, you will be notified that no additional sessions are available. The user names using the open sessions will be listed.
6.6.1	VitreaExtend	**CAUTION:** When loading very large datasets and /or using applications with high computation needs (such as Brain Perfusion 4D) while using multiple concurrent remote sessions, you may notice longer loading and processing times.
6.6.1	VitreaExtend	**CAUTION:** VitreaExtend supports loading the same dataset on multiple sessions concurrently. Be aware that software does not prevent multiple users viewing the same patient study at the same time.
6.0.1	Myocardial Perfusion	**CAUTION:** Verify that the software-generated LV axis line is accurate, or adjust it so that it is accurate. The position of the LV axis line is used to calculate classification of the 17-segment polar map model. Evaluate the software-generated endocardial and epicardial contour lines to verify that they are accurate, or adjust them so they are accurate. The myocardial contour lines are used to calculate the measurements. Be certain that the contour lines do not include data outside the true myocardium (for example, be sure the contour lines avoid the coronary vessels). An error in the contour lines could create a significant adverse effect in the calculations, which could lead to incorrect diagnosis. (Introduced in the US in 6.7.4)
6.0.1	Myocardial Perfusion	**CAUTION**: Prior to restoring a multiple-series snapshot, make sure you load all associated studies. It is possible to restore a snapshot associated with multiple volumes with too many, too few, or incorrect volumes loaded. Doing so may yield different results than the original calculations. (Introduced in the US in 6.7.4)
6.0.1	Myocardial Perfusion	**CAUTION:** Always scroll through the slices after clicking compute as Vitrea may adjust the contours to fit the model used for the calculating the polar maps. Verify that the Polar Maps are consistent with the contours, LV axis, and the Short Axis Sector Indicator. The gray area indicates the aortic valve. (Introduced in the US in 6.7.4)
6.0.1	Myocardial Perfusion	**CAUTION:** Always scroll through the slices after clicking compute as Vitrea may adjust the contours to fit the model used for the calculating the polar maps. (Introduced in the US in 6.7.4)

General Notes

As of Version	Products	Description
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	This product is intended for use only by appropriately qualified and trained personnel.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	Vital Images assumes no liability for problems attributable to unauthorized modifications, additions, or deletions to this product, or unauthorized installation of third-party software.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	In some protocols, Vitrea uses DICOM information for calculations. To ensure the most accurate calculations, be sure to enter DICOM information completely and correctly.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	Always verify patient information and DICOM headers to ensure the correct patient study is loaded.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	Before saving, editing, or reviewing the patient data, ensure that the contents correspond to the patient name. This provides additional assurance that the stored data correspond to the correct patient.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	When launching from Vitrea to partner-integrated software, review patient information to verify correct patient study is loaded.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	Always use best professional judgment when viewing Vitrea images. Do not use for diagnosis or planning if you notice improper or unexpected images.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	After editing segmentation, contours, or centerlines, review the results to verify the Vitrea applied the edits correctly.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	If you create a snapshot, and then make edits that affect the findings included on the snapshot, be sure to create a new snapshot with the new findings.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	It is your responsibility to determine if the results of measurements are satisfactory.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	When using the Undo/Redo function, verify that Vitrea undid or redid the action appropriately. Not all features support the Undo/Redo function.
6.7	VitreaAdvanced VitreaExtend VitreaWorkstation	It is your responsibility to limit access to patient data to authorized individuals.

New 6.7.4 Features and Enhancements

The following features, functionality and enhancements have been incorporated into VitreaAdvanced, VitreaWorkstation, and VitreaExtend products:

The 6.7.4 software release does not include support for the VitreaExtend® product.

Now for sale in the US - Vitrea CT Myocardial Perfusion Software

Vitrea CT Myocardial Perfusion is intended to assist a trained user for the visualization of hypo/hyper dense areas in patients with angina or with a previous myocardial infarction to assess the disease state and treatment. This software provides semi-automated heart and left ventricle segmentation and color polar maps of the myocardial tissue. The information provided is intended to be qualitative in nature and when used by a qualified physician may aid in the identification of myocardial enhancement defects and the follow up of such findings.

- Semi-automatic segmentation of the heart chambers, blood pools, and myocardium
- Qualitative measurements, including Myocardial Mass, and Hounsfield Unit (HU) Attenuation
- Automatic calculation of quantitative perfusion results to include:
    - Perfusion Index
    - Transmural Perfusion Ratio (TPR)
- Single and dual-volume series analysis
- Easy manual editing of labeling of each series for quick identification, if needed.
- Ability to view cardiac vessels over colored attenuation data using 3D Fusion
- 17 segment or detailed perfusion polar maps
- Overlay of colored attenuation data onto MPR and 3D images with adjustable transparency
- Defect scoring tool provides users an alternative way to:
    - Determine size of hypo-dense regions
    - Calculate percent of effected myocardium
- Reporting templates for summarization of findings
- Customized viewing layouts optimized for Myocardial Perfusion

Clinical Enhancements

CT Lung Density PD15% Measurement Update
The PD15% measurement has been modified to follow the standard formula expressed in the chest radiology literature. We now compute the PD15% with PD15% (g/l) = Perc15(HU) + 1000 HU. Previous formula used: PD15% (g/l) = Perc15(HU) +1024). The computation of the Perc15(HU) is unchanged.

General Features and Enhancements

NEW VitreaCore™ Data Manager User Preferences

- Administrators and Users now have the ability to define how the Data Manager Tabs display. This will enhance the workflow as it is designed to display the most used tabs so that a user does not have to wait to access what they want.
- Under System Settings, Data Manager Tab Settings, we have created new user preferences at the system level (accessible to VitreaCore Administrators) option to allow customers to define how they want the Tabs to be displayed. This new user preferences area contains the following:
    - Controls to enable or disable custom settings for all users or per user group
    - Controls to set custom settings (same controls as at user level settings) for all users.
    - User group will not have ability to customize these settings.
    - System level custom settings shall be defined for all users.
    - System level settings shall be used, unless user changes their preferences which would then overwrite the system level settings.
- **Default Settings**: The system will have the following tabs displayed by default, unless customized by the user:
    - The report tab, if it is enabled and the study contains report(s).
    - The Snapshot tab, if the study contains snapshot(s), but no report.
    - The Application tab, if it is enabled and the study does not contain any reports or snapshots.
    - The Series tab in all other cases.
    - *If a custom default tab is set to the Application, Series or Report tab, the Snapshot tab will only be loaded when a user clicks on it.*

NEW Vitrea Screen Affinity

- Users of VitreaWorkstation and Vitrea PowerStation will now be able to launch Vitrea on varying monitor sizes and display the full screen.
- This does not apply to VitreaExtend, Softread and Mirada XD3 users.
- The Z820 and Z840 systems can only have the additional monitors plugged into the same video card that the console session is plugged into the system.

Known Limitations

As of Version	Products	Description
6.7.4	VitreaExtend	**The 6.7.4 software release does not include support for the VitreaExtend® product.**
6.7.2/6.7.3	VitreaAdvanced PIN-1662 PIN-1676	**As of 6.7.4 the VitreaCore client cannot be upgraded ahead of server installations when upgrading from 6.7.2 and 6.7.3. If upgrading from 6.7.1 and earlier releases the VitreaCore client can be pre-pushed and can co-exist with other versions of the client.**
6.7.2	VitreaAdvanced	**Load-Balanced VIMS is not supported when running on Windows Server 2012 R2**
6.7	VitreaAdvanced VIT-12150	**Coronary Gradient findings generated maybe blank** If you load a coronary study into the Cardiac Arteries CT: 3D Analysis Auto Vessels preset, and select “Show Vessel Gradient” checkbox, the findings in the report page and check findings section maybe blank. **As a workaround**, you can take a snapshot of the findings image and fill the report manually.
6.7	VitreaAdvanced VIT-12860 VIT-12865	**Coronary Gradient Graph are not restored from snapshot** If you load a coronary study using the Cardiac Arteries CT: 3D Analysis Auto Vessels preset and follow this workflow, the coronary gradient graph is not restored and may cause Vitrea to crash. 1. Load coronary study. 2. Select “Show Graph” and change view to a 3D 1-UP layout. 3. Take a snapshot. 4. Click “back” and go to the Study Directory. 5. Restore the snapshot from the Study Directory. The snapshot will restore, however, the SPR and Graph are not displayed as the “show graph” checkbox is no longer checked. If you click on show graph again, the SPR is displayed but not the graph. In addition, if you then select the report page, Vitrea may crash. **There is no workaround for this issue**.
6.7	VitreaAdvanced VIT-12891 VIT-7942	**CT Fat Application: Auto generated images are black for single slice data** This issue occurs with the following workflow: 1. Launch single slice data into CT Fat preset. 2. Select the **Report** tab. 3. The report should populate with auto generated images. The Auto generated images are completely black. **As a workaround,** take snapshots and drag into the report to replace the blank images.
6.7	VitreaAdvanced VIT-12718 VIT-12319	**Coronary Gradient Graphs are not attached to the report page when reloading a volume** This issue occurs with the following workflow: 1. Load a cardiac study and select CT Arteries Auto Vessels preset. 2. Check show graph check box in Gradients. 3. Move to the report tab and turn to the page of gradient, and the graph and SPR’s are attached. 4. Move to Study Directory and reload the same dataset. 5. Select CT Arteries Auto Vessels preset. 6. Select the **Show graph** check box in the TAG. 7. Select the Report tab and turn to the page of gradient and the gradient graphs and SPRs are NOT attached. **As a workaround**, do not reload the same dataset, as the functionality does work the first load.

Known Limitations, continued

As of Version	Products	Description
6.7	VitreaWorkstation VitreaExtend VIT-11762	**Snapshot Thumbnails will not work correctly on the report page** This issue occurs if the following occurs during installation 1. Install VitreaWorkstation or VitreaExtend. 2. When the installer asks about the Patient data location change it to a folder different from what it shows in the instructions. 3. Complete the installation. 4. Load any study in Vitrea and take a snapshot. 5. Go to the Report page. The snapshot thumbnails do not work. To avoid this, set the directory path correctly during installation and the snapshot thumbnails will work correctly.
6.7	VitreaAdvanced VIT-12686	**Lung Nodule findings are not displayed when restoring snapshots** This issue occurs with the following workflow: 1. On the Study Directory, load two or three CT series to VitreaAdvanced. 2. On the Gallery, select the **Lung CT Nodule Analysis** preset. 3. Probe one or more nodules and take a snapshot. 4. Go back to the Directory; load the same two CT series to VitreaAdvanced. 5. On the Gallery, select the **Lung CT Nodule Analysis** preset. 6. Go to the Report page and restore the snapshot. 7. Return to the Report page and go to page two. As a result, the nodule findings are not displayed. **As a workaround,** take a snapshot of the dictation table which shows the findings and the measurements are available on the viewer page.
6.7	VitreaAdvanced VIT-12510	**Brain Perfusion maps are blank when selecting vessel checkbox** This issue occurs with the following workflow: 1. Load a study into the CT brain perfusion protocol using the shuttle perfusion preset. 2. Wait until processing completes and perfusion maps display. 3. Go to 3D 6-up layout and verify the display of the perfusion maps. 4. Along with the axial view Perfusion maps display. 5. Return to the Gallery page and select the same preset. 6. Wait until processing completes and perfusion maps display. 7. Go to 3D 6-up layout and verify the perfusion maps display. 8. Along with the axial view Perfusion maps display. 9. Select the **Show** check box under Summary Map. 10. Colored overlay displays on the axial image. 11. Select the **Vessels** checkbox under “other tissue types”. As a result, the perfusion maps are blank when you select the vessels checkbox. **As a workaround**, you can get the maps back by increasing the view thickness, or reloading the study without returning to the gallery.
6.7	VitreaWorkstation VIT-12901	**Cardiac Functional Analysis Graph is collapsed** This issue occurs with the following workflow: 1. Load multiple series into the LV Functional Analysis preset. 2. Click Play, clear the Lock 3D check box, and click More Results. 3. Enter height and weight. Select the **Index** check box. 4. Change to a 5-up polar plots format. 5. Rotate axis in the 2-chamber view, then click **Compute**. 6. Make a much bigger change in the axis in the 2-chamber view, rotate the lines in the short axis view, and then click **Compute** The red line in the graph on the left panel is collapsed so it only displays over the first phase button. **As a workaround,** reload and reprocess the dataset.

As of Version	Products	Description
6.5, 6.6, 6.7	VitreaAdvanced VIM-1867	**License Availability Report displays a gray screen** Run a License availability report searching for the last day, and the results of the query returns a gray screen. This is expected behavior if there are no events where there is a lack of license events. The report should display a graph with values of the query if the systems detects that “lack of license events” have occurred.
6.7.3	VitreaAdvanced SUSENG-4430	**Series will not segment when loading into Vascular: Aorta Stent CT** The issue happens because presence of shoulder bones in the scan. Pushing the part of the scan that excludes shoulder bones will allow segmentation to complete successfully.
6.7	VitreaAdvanced PIN-1580	**Mirada RTx series are not able to be exported from the VES study directory** This issue occurs with the following workflow: 1. Import an RTx study that contains RT data. 2. Right-click on study and export. 3. Right-click on individual RT series and export. As a result, you are unable to export individual RT series. **As a workaround**, export the entire study and not individual series.

Resolved Issues

As of Version	Products	Description
6.7.4	VitreaAdvanced VitreaCore VIC-1106 VIC-1108	**VitreaCore crashes while enabling the disabled application tab** This issue occurred with the following workflow: 1. Login to VitreaCore 2. Select preference and uncheck 'Enable Application tab'. Save the setting 3. Select a study and verify that the application tab is disabled 4. Select preference and check 'Enable Application tab'. Save the setting As a result, VitreaCore crashes instead of the application tab setting being saved. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaCore VIC-1111 SUSENG-4453	**VitreaCore Data Manager populates images slowly for studies with a large number of snapshots** This issue occurred with the following workflow: 1. Create or get a dataset with about 40 snapshots taken in 1-up on a large monitor (2560x1600) 2. Import dataset to VES. 3. In VC Study Directory, click on the patient. As a result, the snapshot tab is displayed first, but it can take some time before it is actually displayed. The user has to wait until all snapshots are loaded and displayed before they can click on the series tab to load a study. This adds additional time that the user must wait to load a study. To resolve this issue a new feature was added allowing administrators and users to define the default Data Manager tab default preferences. **This issue has been resolved.**
6.7.4	VitreaAdvanced VIM-2188 SUSENG-4542	**Image count does not match between PACS and VitreaAdvanced** There are rare instances where when a study is sent to VitreaAdvanced from PACS or direct from a scanner, the slice count maybe off. Typically a single image is missing. This issue was due to specific folder exclusion settings on customer side. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaWorkstation VIT-14256 VIT-12850 SUSENG-4410	**Brain Perfusion summary maps are orange in color** This issue occurred with the following workflow: 1. Load a brain perfusion into the 4D smooth protocol. 2. Manually pick the vein and artery, then select compute. 3. Intermittently, the summary maps will appear orange in color. **This issue has been resolved**
6.7.4	VitreaAdvanced VIT-14290 SUSENG-4480	**Installation documentation missing information related to 2012 server.** The installation documentation for VIMS, VitreaCore, and VitreaAdvanced contains install information for server 2012R2 but the text refers to items not available in 2012. The installation guides have been updated. **This issue has been resolved.**
6.7.4	VitreaCore VIC-1103	**The wrong slice number and location are displayed in Viewports.** This issue occurred with the following workflow: 1. Load any study in VitreaCore 2D 2. Right click and select viewport layout 3. Select a multiple viewport layout, where the detailed slice information (slice number and location) is displayed. As a result, the slice number and location, is the same for all slices and doesn't match. **This issue has been resolved.**

As of Version	Products	Description
6.7.4	VitreaAdvanced VIT-14336 VIT-14334	**Myocardial Perfusion TPR 17 segment 3D map volume colors are wrong after changing color bar** This issue occurred with the following workflow: 1. Load a study into Myocardial Perfusion. 2. Switch to the Cardiac 6-up Scoring layout. 3. Manually classify some segments in the 17 segment TPR polar map. 4. Turn on the polar map overlays/fusion. 5. Switch the color bar in the 3D viewer to Hot Metal or Rainbow. 6. Turn overlay/fusion off and then on. 7. Switch the color bar in the 3D viewer to TPR 6 Tone. As a result, the 3D map volume segment colors don't match the polar map and MPR overlay. The manual classifications have not been applied to the 3D map volume. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaExtend VIT-14321 SUSENG-4507	**MPR view is blank when you load a study** This issue occurred with the following workflow: 1. Start a remote session on VitreaExtend 2. Load any study into any protocol from the console. 3. Click on the “Display image in 1-up view” button in the lower left corner of any MPR to make an MPR full screen 4. Zoom the MPR using the mouse (Left + Middle-Click and Drag) or the Zoom icon. 5. Click on the “Revert to previous screen layout” button to go back to the previous layout with 4 viewers 6. Click on one of the MPR viewers with the left mouse button, making sure to be in the middle of the anatomy. As a result, One MPR view is blank even though the crosshair is in the middle of the viewport. Switching to another layout doesn’t solve the blank MPR issue. The issue is related to the Zooming the MPR. • If the zoom issue happens in the sagittal view, the coronal MPR will become blank. • If the zoom issue happens in the coronal or axial view, the sagittal MPR will become blank. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaExtend VIT-14322 SUSENG-4508	**Unable to use the zoom functionality** This issue occurred with the following workflow: 1. Start a remote session on VitreaExtend 2. Load any study into any protocol from the console. 3. Click on the “Display image in 1-up view” button in the lower left corner of any MPR to make an MPR full screen 4. Zoom the MPR using the mouse (Left + Middle-Click and Drag) or the Zoom icon. As a result, the image stutters during the zooming and several colored frames are visible instead of one. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaCore VIT-14428 SUSENG-4526	**X-Ray Batch images appear white in VitreaCore and when exported to PACS** This issue occurred with the following workflow: 1. Load an X-Ray series 2. Select any XA protocol 3. Create batch from Axial, Coronal, or Sagittal 4. Batch displays as expected on report page **5.** Send batch to PACS or load into VitreaCore As a result, The batch displays as a white box and extensive WW/WL is needed to view anatomy. **This issue has been resolved.**

As of Version	Products	Description
6.7.4	VitreaAdvanced VitreaCore VIM-2187 SUSENG-4381	**When querying a study from PACS with a large number of series, the query fails to update** This issue occurred with the following workflow: **1.** Perform query of patient on PACS with more than 50 series As a result, the study list fails and doesn't show the list of series **This issue has been resolved.**
6.7.4	VitreaAdvanced VIT-14287 SUSENG-4452	**ROI tool is not available when you switch between 2D VScore with color and 2D VScore** This issue occurred with the following workflow: 1. Open Vitrea and select a CACS study, then load volume 2. Select Cardiac: CA Scoring CT and click on 2D V Score with Color a. (ROI TOOL WILL NOT be greyed out at this point) 3. Do not close the session, but click back to Study Directory and select different study or the same study, and load volume 4. Select Cardiac : CA Scoring CT and click on 2D V Score with Color As a result, ROI TOOL WILL be greyed out. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaWorkstation VIT-14285 SUSENG-4477	**Patient information not highlighted in 2D batches and difficult to read on film** This issue occurred with the following workflow: 1. Load any patient and select any protocol 2. Select 2D option 3. Create a batch As a result, the patient information is greyed out and can be difficult to read when printed on film. **This issue has been resolved.**
6.7.4	VitreaAdvanced VIT-14283 SUSENG-4442	**3D Batching images "Jump"** This issue occurred with the following workflow: 1. Load a vascular study into the Vascular Runoff CT protocol 2. Change the 3D image to MIP and then change the view to 5-up 3. Mag the top 3D image a bit and change the display to "Display a segmented volume to show the point-of-interest", then right click and drag until all anatomy is visible 4. In the axial 2D view, scroll to the very top image, and then go to the Batch tab 5. Click on the top 3D image, and scroll down a bit in the 2D image, click again in the top 3D image, then rotate the 3D image to the right, click, rotate to the left, click, then rotate back to the anterior view and click 6. Scroll all the way down on the 2D view, and click in the top 3D view and click End 7. Change the number of images you want in the Output Control section, and then click the Batch button As a result, the batch will play in the preview screen and will jump around in certain parts, and does not run smoothly. **This issue has been resolved.**

As of Version	Products	Description
6.7.4	VitreaAdvanced VIT-14410 VIT-14411 SUSENG-4547 SUSENG-4548	**Incorrect volume displays in Brain MRI Tumor report** This issue occurred with the following workflow: 1. Load a MRI brain series into the Brain MRI protocol and pick 2D Tumor Measurement 2. Make a tumor measurement, and take a snapshot 3. Go back to Study Directory and load a different MRI brain series from same study into the Brain MRI protocol and pick 2D Tumor Measurement 4. Make a tumor measurement, then take a snapshot and go back to the Study Directory 5. Restore snapshot from the first series 6. Click on the Gallery tab and pick 3D Analysis, then take a snapshot of the 3D image 7. Go back to Study Directory and restore the snapshot from second series 8. Click on the Gallery Tab and pick 3D Analysis, and take a snapshot of the 3D image 9. Go to Study Directory and restore the 1st 2D snapshot 10. Go to Report tab, click Full Reports- Brain Tumor 11. The correct volume will show up on this report 12. Go to Study Directory and restore the 3D snapshot from the second series, then go to Report tab, click Full Reports- Brain Tumor As a result, The volume from the 1st 2D snapshot will show up. **This issue has been resolved.**
6.7.4	VitreaAdvanced VIM-2201 VIM-2202 SUSENG-4563	**Unable to view Lung CAD Results** This issue occurred with the following workflow: 1. Push any LUNG CAD study to a Standalone Workstation or VitreaAdvanced system. 2. Auto-forward the study to Mevis LUNG server or push the study to CAD server manually. 3. Wait for the results to appear on VIMS As a result, the CAD application icon is missing from the application tab. VIMS has a warning message, “Incoming instances for the series have a single frame and multiframe instances. Will be processing only Multiframe instances.” **This issue has been resolved.**
6.7.4	VitreaAdvanced SUSENG-4474 PIN-1784	**Update to Mirada RTx to address a defect with the Margin Generation Tool** This issue occurred when using non-Head First Supine data and by creating an anisotropic (non-uniform) margin (a margin where the distance from the original structure to the new structure is intended to be different on different sides) The tool will use the larger margin on both sides. The issue does not affect Head First Supine data or uniform margins. **This issue has been resolved.**
6.7.4	VitreaAdvanced VitreaWorkstation VIT-14510 SUSENG-4587	**Study Directory image count does not match the actual image count** This issue occurred when the image count display was not getting refreshed as new images came in. It only refreshed after the user clicked on the patient. **This issue has been resolved.**
6.7.4	VitreaAdvanced VIM-2214 VIH-2728 SUSENG-4581	**Exports of reports are black** This issue occurred with the following workflow: 1. Apply Windows updates (with KB3057839 included) to a Windows 2008 R2 Vims server 2. Launch an Advanced session and create a report, then export report to PACS or local export to Vims As a result, The entire report in the series tab is black on all pages and the thumbnail on the series tab was also black. **This issue has been resolved.**

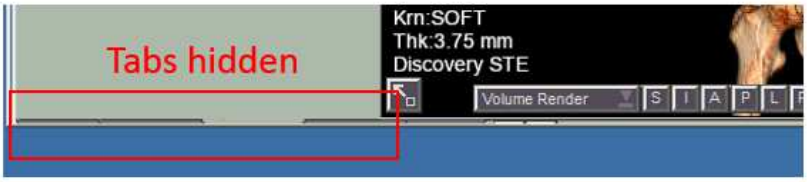
As of Version	Products	Description
6.7.4	VitreaAdvanced VIT-14286 SUSENG-4283	**CT Brain Perfusion vessels in the brain turn to white after W/L on parametric map** This issue occurred with the following workflow: 1. Load a CT Brain perfusion 2D dataset in Brain perfusion CT / 2D Perfusion 2. Click Compute 3. Click on "Vessels" check-box of the Perfusion tool panel to show the vessels. 4. Check that the segmented vessels are in grey level. 5. Adjust the WL in a parametric map for example CBV map. As a result, the vessels turn white in this viewer. **This issue has been resolved.**
6.7.4	VitreaAdvanced SUSENG-4609 VIM-2221	**Sending a Query to VIMS results in Error** This issue occurred with the following workflow: 1. Successful DICOM association 2. C-FIND-RQ packet from querying system 3. C-ECHO-RSP from VIMS As a result, the request was released from both systems, as VIMS should have responded with C-FIND-RSP. **This issue has been resolved.**
6.7.4	VitreaAdvanced VIT-14393 VIT-14039 VIT-14355 SUSENG-4467 SUSENG-4435	**Vascular Studies failed to segment** This issue occurred when auto bone removal is checked which caused the vascular segmentation to stop at 18% and not complete. **This issue has been resolved.**
6.7.2/ 6.7.3	VitreaAdvanced PIN-1662 PIN-1676	**As of 6.7.4 VitreaCore client can be upgraded ahead of server installations.** If upgrading from 6.7.2 and 6.7.3 the VitreaCore client cannot be pre-pushed. **This issue has been resolved.**
6.7.2	VitreaAdvanced VIT-12718 VIT-12319	**Coronary Gradient Graphs are not attached to the report page when reloading a volume** This issue occurs with the following workflow: 1. Load a cardiac study and select CT Arteries Auto Vessels preset. 2. Check show graph check box in Gradients. 3. Move to the report tab and turn to the page of gradient, and the graph and SPR's are attached. 4. Move to Study Directory and reload the same dataset. 5. Select CT Arteries Auto Vessels preset. 6. Select the **Show graph** check box in the TAG. 7. Select the Report tab and turn to the page of gradient and the gradient graphs and SPRs are NOT attached. **This issue has been resolved as of 6.7.2**

As of Version	Products	Description
6.7.4	VitreaAdvanced VIT-14588 SUSENG-4311	**Bone doesn't segment properly and pixelates when using transparency** This issue occurred with the following workflow: 1. Load any carotid study into Advanced viewer using Vascular Carotid CT or Vascular COW protocol 2. Allow study to segment anatomy, then under Anatomy, select Bone 3. While Bone is selected, change the transparency. Additional steps: 1. Under Anatomy, select Bone. 2. Select Semi-Transparent under Segment Anatomy. 3. Using Window Level, the transparency looks fine until mouse is released at the desired setting and it pixelates. As a result, the bone looks fine until you release the mouse at the desired setting and it pixelates. **This issue has been resolved.**

Known Issues

As of Version	Products	Description
6.7.4	VIT-14002	**Edit patient info on PACS, do 2D brain perfusion. Maps show unedited data.** This issue occurs with the following workflow: 1. Create a patient reconciliation file for a study with edited patient name, ID, DOB, sex, study date, and study time. 2.Load the data using a URL, which refers to the patient reconciliation file: 3. Do a 2D brain perfusion workflow, and check the patient info in each of the following places. On the Viewer, check all Viewer layouts: Title bar Gallery page patient info Viewer page patient info Report page patient info The maps on the Viewer show unedited data. (The title bar, Gallery, Report page, and the other areas of the Viewer show edited data.) **There is no workaround for this issue**.
6.7.4	Vitrea Workstation VIT-11745 VIT-10819 VIT-10160	**CT Myocardial Perfusion snapshot restore doesn't restore heart rate value** This issue occurs with the following workflow: 1. Load a cardiac study with the "Cardiac: Myocardial CT" protocol or the Myocardial Perfusion presets 2. Note the values in the results section (Myo, mass, Myo. volume and Heart rate. 3. Take a snapshot 4. Return to the study directory and load any other study 5. Return to the study directory and restore the snapshot you created earlier As a result, the heart rate value remains blank. **As a workaround**, any edit of the LV Axis or LV contours followed by a re-compute (or undo the edit) will display the heart rate information.
6.7.4	VitreaExtend VIT-14517 VIT-14543 VIT-14282 VIT-14443 VIT-14281 SUSENG-4484	**Intermittent OpenGL Error on Server** Intermittently, sessions become unresponsive and images are not displayed. Then, all other sessions become unresponsive. On the VitreaExtend server, an OPENGL error can be seen. All sessions have to be terminated, if they are not terminated automatically.
6.7.4	VitreaAdvanced VitreaCore VIC-1124	**Conferencing Icon is not seen** You cannot use conferencing feature on Windows 8.1 clients. Launch directly into a Conference by starting an Advanced Session using the "Start Conference" right click menu located on the Applications Tab.
6.7.4	VitreaAdvanced VIT-14571	**Screen Affinity – Monitor Numbers do no match when using multiple monitors** **As a workaround,** select a different Windows monitor ID until the application launches on the desired monitor.

As of Version	Products	Description
6.7.4	VitreaAdvanced VitreaCore VIC-1120	**Cannot select a study where the text in the column is longer than the column length.** This issue occurs with the following workflow: 1. Make sure you have study whose patient information will not fit with the width of the study directory column. 2. Select the study by single clicking on a column which is not visible completely As a result, the study is not selected. **As a workaround**, select another column or field in the study where the data in that column fits within the width.
6.7.4	VitreaAdvanced VitreaCore VIC-1117	**VitreaCore application tab loading and displaying even though it's not set as default.** This issue occurs with the following workflow: 1. Login as admin, enable custom setting, and give access to at least advanced diagnostic user, then close VitreaCore 2. Login as advanced diagnostic user, select data manager tab setting and set "report" tab as default tab 3. Select a study that doesn't have a report As a result, the series tab should only be loaded and displayed, but the application tab loads and displays for a short time and then the series tab displays as expected. **As a workaround**, wait for the default tab (as defined by the study content or by the Data Manager Tab Settings) to be displayed, after the Application tab.
6.7.4	VitreaAdvanced VitreaCore VIC-1123	**Launching in to VitreaAdvanced Server shows a gray non-functional screen with patient info at the top** This issue occurs intermittently when you launch Vitrea. As a workaround, close the Advanced session and start a new one. Another option is to restart the VitreaAdvanced server.
6.7.4	VitreaAdvanced VIC-1125	**When using the conferencing feature, a white artifact line displays when scrolling up and down** This issue occurs with the following workflow: 1. On a VES system with OS 2012 server R2 2. Launch one client with resolution (2560X1600) 3. Start a conference and open one study into VitreaAdvanced 4. Join the conference as another user using machine with resolution 1600x1200. 5. Scroll up and down to view the shared images in the viewer. As a result, a white artifact line is shown when scrolling up and down during conference. **There is no workaround for this issue.**
6.7.4	VitreaCore VIC-1132	**VitreaCore Conferencing feature does not start and produces an error** This issue occurs with the following workflow: 1. User A starts conference. User B joins. Conference is ended. 2. User B starts conference. User A joins. Conference is ended. 3. Repeat steps 1-2 a few times. 4. Sometimes, user B starts conference when user A also conferencing (with 2 VitreaAdvanced Server's available...) As a result, An intermittent error is displayed by VitreaCore that says "A required component is missing or could not be started." Sometimes, it appears that the VitreaAdvanced Servers are allocated in the GAM but not released when this happens. This can also occur when User A and User B were using different sized monitors with different screen resolutions. **There is no workaround for this issue.**

As of Version	Products	Description
6.7.4	VitreaAdvanced VIC-1131	**Changing a password on the client, user is not able to log in** **As a workaround,** users can contact their VitreaCore Administrator to reset the password from the VitreaCore Admin Pages.
6.7.4	VitreaAdvanced VIC-1102 SUSENG-3159	**VitreaAdvanced Server windows misaligned, navigation tabs are hidden** This issue occurs with the following workflow: 1. Load a study into VitreaAdvanced 2. You should see all 5 navigation tabs located at the bottom left of the screen (see image All Tabs), however, intermittently the navigation tabs located at the bottom of the screen are not visible (see image, Tabs hidden). 3. You can close and restart VitreaAdvanced or you can utilize the following workaround.   **As a workaround,** even though you cannot see most of the tabs, you are able to place your mouse on the top of the individual tabs and still click and move from tab to tab to complete your work.

Versioning Information – 6.7.4

Product Name	Version Number
VIMS Server	6.7.4
VitreaAdvanced Server	6.7.4
VitreaCore Server	6.7.4
VitreaAdvanced fX	6.7.4
Vitrea (Workstation)	6.7.4
Vitrea fX (Workstation)	6.7.4
Cedars-Sinai Cardiac Suite Quantitative Blood Pool SPECT (QBS)	2013.2.0.20140
Cedars-Sinai Cardiac Suite Quantitative Gated SPECT (QGS) + Cedars-Sinai Cardiac Suite Quantitative Perfusion SPECT (QPS)	2013.2.0.20140
iCAD VeraLook® CAD	1.0 – 1.1
Medicsight Colon CAD	3.3 – 4.1
Medis® QFlow® MR	5.6
Medis QMass® MR Essentials	7.6
Medis QMass MR Advanced	7.6
MeVis Visia™ Dynamic Review	6.3
MeVis Dynamic MR	6.3.0.150278
Visia CT Lung CAD	5.4
Mirada Oncology Fusion™ Core	3.6.3.5
Mirada Oncology Fusion Standard	3.6.3.5
Mirada Oncology Fusion Advanced	3.6.3.5
Mirada RTx	1.6.2.2
Olea Sphere™	V2.2 SP7
TomTec	TomTec-Arena 1.1.1 (Image Com 5.2)